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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|---|-------------|----------------------|-------------------------|-----------------|
| 09/653,408 | 08/31/2000 | Jean-Charles Mercier | Q60439 | 5345 |
| 7590 03/24/2004 Sughrue Mion Zinn MacPeak & Seas PLLC 2100 Pennsylvania Avenue NW Washington, DC 20037-3213 | | | EXAMINER | |
| | | | GONZALEZ, JULIO C | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2834 | |
| | | | DATE MAILED: 03/24/2004 | 4 |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| - | | Application No | Applic | cant(s) | | | | |
| Office Action Summary | | 09/653,408 | MERC | MERCIER ET AL. | | | | |
| | | Examiner | Art Ur | nit | | | | |
| | | Julio C. Gonza | | | | | | |
| Period for | The MAILING DATE of this communicat Reply | ion appears on the cov | er sheet with the correspo | ondence address | | | | |
| THE M Extensi after SI If the po - If NO p - Failure Any rep | RTENED STATUTORY PERIOD FOR AILING DATE OF THIS COMMUNICA ons of time may be available under the provisions of 37 X (6) MONTHS from the mailing date of this communication of the provision of th | TION. 'CFR 1.136(a). In no event, ho ation. ys, a reply within the statutory n y period will apply and will expir by statute, cause the application | wever, may a reply be timely filed ninimum of thirty (30) days will be co e SIX (6) MONTHS from the mailing to become ABANDONED (35 U.S | onsidered timely. g date of this communication. s.C. § 133). | | | | |
| Status | | | | | | | | |
| 1)⊠ F | Responsive to communication(s) filed o | n <i>06 January 2004.</i> | | | | | | |
| · · · · · | ☐ This action is FINAL . 2b) ☐ This action is non-final. | | | | | | | |
| • | <u>.</u> | | | | | | | |
| Dispositio | n of Claims | | | | | | | |
| 5)□ C 6)⊠ C 7)□ C | Claim(s) <u>1-3 and 5-7</u> is/are pending in that Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>1-3 and 5-7</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction | vithdrawn from conside | | | | | | |
| Applicatio | n Papers | | | | | | | |
| 9)∐ TI | ne specification is objected to by the Ex | xaminer. | | | | | | |
| 10)∐ T | ne drawing(s) filed on is/are: a) | accepted or b) o | bjected to by the Examin | er. | | | | |
| Д | pplicant may not request that any objection | n to the drawing(s) be he | d in abeyance. See 37 CFF | R 1.85(a). | | | | |
| | eplacement drawing sheet(s) including the he oath or declaration is objected to by | • | - ,,,,, | ` ' | | | | |
| Priority un | der 35 U.S.C. § 119 | | | | | | | |
| a) | cknowledgment is made of a claim for the All b) Some * c) None of: Certified copies of the priority documents. Certified copies of the priority documents. Copies of the certified copies of the application from the International ethe attached detailed Office action for | cuments have been rec cuments have been rec he priority documents Bureau (PCT Rule 17 | ceived. ceived in Application No. nave been received in thi 2(a)). | | | | | |
| Attachment(s | ;) | | | | | | | |
| 1) Notice | of References Cited (PTO-892) | 4) [| Interview Summary (PTO-41 | | | | | |
| 3) 🔲 Informa | of Draftsperson's Patent Drawing Review (PTO-s tion Disclosure Statement(s) (PTO-1449 or PTC lo(s)/Mail Date | o/SB/08) 5) [| Paper No(s)/Mail Date Notice of Informal Patent App Other: | | | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sperry in view of Utsunomiya et al (US 4,442,371).

Sperry discloses a wind power generator pod having a rigid fairing 1 in which generators 4 and 5 are disposed, a wind propeller 9 and the stator of the generators 4 and 5 contact the fairing 1 (see figure 1). Moreover, Sperry discloses that the pod have change direction or swivel at the end of mast 14 (see lines 92-94, 100-103 & figures 1, 3, 9).

However, Sperry does not disclose that the stator has lateral openings extending through the stator.

On the other hand, Utsunomiya et al discloses for the purpose of improving the construction of a cooling ventilation flue for a stator, an electrical machine having lateral openings 4, 5 extending through the stator 2 (see figure 2).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a wind power generator as disclosed by Sperry and to modify the invention by having a stator with lateral openings for the purpose of improving the construction of a cooling ventilation flue for a stator as disclosed by Utsunomiya et al.

3. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sperry and Utsunomiya et al as applied to claim 1 above, and further in view of Carter, Jr. et al.

The combined wind power generator discloses all of the elements above. However, the combined wind generator does not disclose having a gearbox.

On the other hand, Carter, Jr. et al discloses for the purpose of obtaining maximum benefit from a wind driven generator, a wind-power generator (see figures 1 and 2) in which a generator 34 is inside a pod and coupled to a propeller 14 and the generator 34 is coupled to a gearbox 36 inside the pod.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined wind power generator as disclosed above and to modify the invention by attaching a gear to the generator for the Application/Control Number: 09/653,408

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purpose of obtaining maximum benefit from a wind driven generator as disclosed by Carter, Jr. et al.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sperry and Utsunomiya et al as applied to claim 1 above, and further in view of Benoit.

The combined wind power generator discloses all of the elements above.

However, the combined wind power generator does not disclose using a tubular sleeve around the pod.

On the other hand Benoit discloses for the purpose of taking advantage of high wind speeds thus improving efficiency of the wind power generator that the pod 58 is surrounded by a tubular sleeve forming an annular air passage along the pod (see figures 2 and 3).

It would have been obvious to one having ordinary skill in the art to design the combined wind generator as disclosed above and to make a tubular sleeve surrounding the pod for the purpose of taking advantage of high wind speeds thus improving efficiency of the wind power generator as disclosed by Benoit. AII UIII. 2034

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sperry and Utsunomiya et al as applied to claim 1 above, and further in view of Rao.

The combined wind power generator discloses all of the elements above.

However, the combined wind power generator does not disclose that a stator may be attached to a fairing by interference fit.

On the other hand, Rao discloses for the purpose of increasing the efficiency of the generator assembly and keeping the generator laminations firmly in place during generation operation, a stator 15, which is assembled into the housing 13 with an interference fit (column 4, lines 30-31 & see figure 2).

It would have been obvious to one having ordinary skill in the art to design the combined wind generator as disclosed above and to have an interference fit between the stator and housing for the purpose of increasing the efficiency of the generator assembly and keeping the generator laminations firmly in place during generation operation as disclosed by Rao.

Response to Arguments

6. Applicant's arguments with respect to claims 1-3, 5-7 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is 571-272-2024. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jcg

RAN NGUYEN